

Data dictionary for

Longitudinal analysis reveals high prevalence of Epstein-Barr Virus associated with multiple sclerosis

This file includes:

Data dictionaries for datasets

Filename: baseline_chr_all.csv
R program: baseline_characteristics.R
Purpose: Reproduce Fig. 1A

Variable	Description	Values
sex	Sex	Categorical: Male; Female.
race	Race	Categorical: Black; White; Hispanic; Other.
age_baseline	Age at baseline (first sample)	Categorical: <26; 26-30; 31-35; 36-40; >40.

Filename: baseline_chr_cases.csv
R program: baseline_characteristics.R
Purpose: Reproduce Fig. 1B and 1C

Variable	Description	Values
age_baseline	Age at baseline (first sample)	Numeric: Years
age_onset	Age at MS onset	Numeric: Years

Filename: ebv_data.csv
R program: ebv_analyses.R
Purpose: Reproduce Fig. 2, Fig. 3, Fig. S3, Fig. S4, and estimates in the manuscript

Variable	Description	Values
id	Random individual ID	Numeric: 1-2387
group	Random ID for matched groups	Numeric: 1-810
serumn	Serum number	1: First, 2: Second, 3: Third
casestat	Case-control status	1: MS case, 0: Control
time_from_bsl	Time since baseline	Numeric: Years
time_to_MS	Time to MS onset	Numeric: Years
ebv_pos	EBV-status	1: Positive, 0: Negative
cmv_pos	CMV-status	1: Positive, 0: Negative
nfl	Neurofilament light chain	Numeric: pg/ml
nfl_log_adj	Age- and sex-adjusted neurofilament light chain	Numeric: log(pg/ml)

Filename: Virscan_dataset.csv
 R program: VirScan_analyses_program.R
 Purpose: Reproduce Fig. 4, Table S1, and Table S2.

Variable	Description	Values
id1	Random individual ID	Numeric: 1-60
casestat	Case-control status	1: MS case, 0: Control
timeser	Timing of serum sample	“last”: pre-, “after”: post-onset
repnum	Same sample assay replicates	1: run 1, 2: run 2
pep_id	Viral peptide ID	Numeric
zscore	Antibody enrichment Z-score	Numeric
Species	Viral species	Character
serotype	Viral serotype	Character
Organism	Viral strain	Character
Protein_name	Viral protein	Character
UniProt_acc	UniProt ID	Character
pro_len	Viral protein length	Numeric
start	Peptide position, start	Numeric
end	Peptide position, end	Numeric